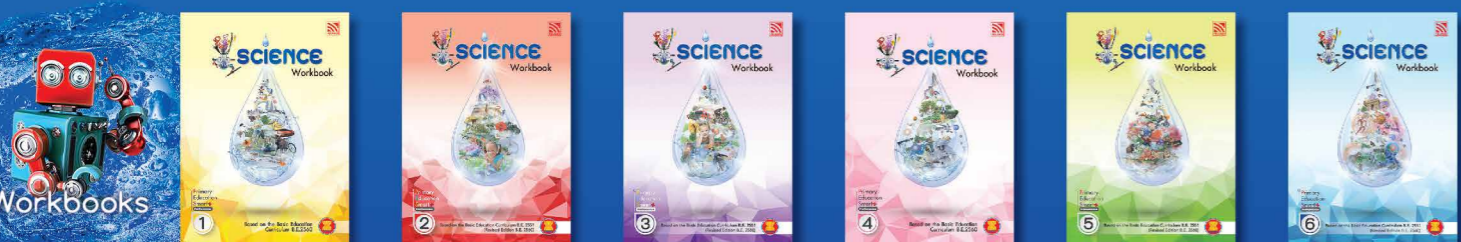


New Revised
Curriculum B.E. 2560

SCIENCE

Prathomsuksa 1-6

Primary
Education
Smart+



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SCIENCE

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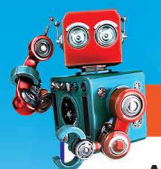
- Based on the Basic Education Curriculum B.E. 2551 (Revised Edition B.E. 2560).
- Both Textbooks & Workbooks are available.
- Free Teacher's Guides and Answer Keys are provided.
- Providing KWLW approach facilitates teachers to adopt a constructivist teaching method.
- Encouraging students being actively involved in thinking about their learning.
- STEM Activity, a problem-based project, complements the lesson which also incorporates the 4C's of the 21st Century Skills such as Communication, Collaboration, Critical Thinking and Creativity.



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K.W.L.W

Allows students to know what to look for while reading and to reflect on what they have learned.

K What I know

Prompts students to activate prior knowledge, shares (individual) answers, brainstorm (other) ideas and discuss responses.

W What I want to know

Provides an opportunity to students to build up self-motivation and generate good inquiries for investigation.

L What did I learn

Encourages students to reflect on their learning, elaborate and discuss on their findings and correct their misunderstanding.

Special Features in this book

W What I want to know more

Encourages students to think further what else they want to know about the topic.

GLOSSARY

Lists and explains difficult terms used in the text.



Chapter 1 Plants

There are many plants around us. Can you name the plants shown above? The flowers are beautiful. What do they do? Do you know other parts of a plant and their functions?

K.W.L.W

What do I know about plants?

- _____
- _____

W

What else do I want to know about plants?

1. What are the names of the common plants?
2. Do different places have different plants?
3. What will happen to the plants if their living conditions change?
4. What are the parts of a plant and their functions?
5. _____

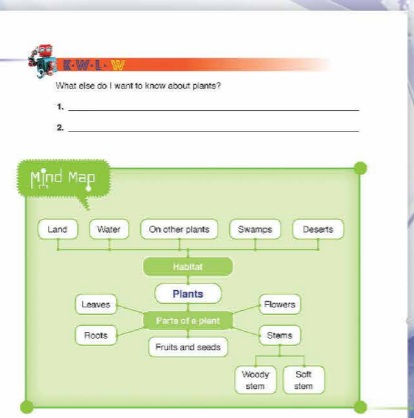
L

What have I learned about plants?

| | | | | |
|-----------|-----------|--------|--------|--------|
| habitats | reproduce | seeds | change | leaves |
| different | land | water | like | hairy |
| stem | terns | cactus | soft | wooly |

1. There are many _____ plants around us.
2. Mango trees and rubber trees live on _____.
3. Plants like orchids and some _____ live on other plants.
4. _____ live on water.
5. _____ plants live in the deserts.
6. Different plants live in different _____.
7. When the habitats of plants _____, the plants cannot grow healthily and may die.
8. The _____ of a plant make food for the plant.
9. The function of the flowers is to _____.
10. The fruits contain _____ which will grow into new plants.
11. The roots of a plant are _____ long and thin.
12. The roots of a plant absorb _____ and minerals from the soil.
13. The _____ of a plant is cylindrical in shape and it provides support to the plant.
14. Sunflower plants and balsam plants have _____ stems.
15. _____ stems are hard and cannot be bent.

Let's Scan and Watch!



GLOSSARY

Absorb
Take in a liquid or gas

Habitat
The place where a living thing lives

Environment
The surroundings around us

Reproduce
Produce a new individual

Let's Find Out!

Encourages students to find information and present their findings.

Generally, leaves are flat and thin, like a piece of paper. Different plants have leaves of different shapes and sizes.

Papaya leaf Fern leaf Banana leaf
Sunflower leaf Rosemary leaves Green mint leaves

Let's Find Out!

We eat the leaves of some plants as food. Besides as food, what are other uses of leaves? Find out from books or the Internet.

Let's Scan and Watch!

Provides direct access to the relevant information on the Internet by scanning the QR codes given.

Mind Map

Presents a powerful diagram to literally 'map' out all the concepts in the chapter.

b. Animals with two legs: _____

c. Animals with four legs: _____

d. Animals with beaks: _____

e. Animals with fins: _____

f. Animals with hard shells: _____

g. Animals with wings: _____

5. What is your conclusion for this activity?

Let's laugh!

Q: Why is Millipede late for class again?
A: He was busy putting on his shoes!!

Let's Laugh!

Makes learning science a fun thing.

Let's Try!

Helps students to master their scientific knowledge and skills.

C Parts of animals

Let's Try!

Do all animals have the same body parts?

Things needed ▶ Pictures of a fish, a bird, a frog, a cow and a snake.

1. Your teacher will prepare pictures of a fish, a bird, a frog, a cow and a snake.
2. Observe the different body parts of the animals.
3. Tick (✓) the correct columns in the table below to show the body parts of the animals.
4. What is your conclusion for this activity?

| Animal | Fish | Bird | Frog | Cow | Snake |
|-----------|------|------|------|-----|-------|
| Body part | | | | | |
| Tail | | | | | |
| Beak | | | | | |
| Legs | | | | | |
| Wings | | | | | |
| Fins | | | | | |
| Horns | | | | | |
| Gills | | | | | |

Let's know more!

We eat carrots, radishes, beetroots and turnips. These are the roots of the plants.

Stems

The stem of a plant is cylindrical. The function of the stem is to provide support to the leaves, holding the flowers and fruits as the stem grows upward. The stem also transports water and nutrients within the plants.

Some plants have woody stems. Woody stems are hard and do not bend easily. Here are some examples of plants with woody stems.

Papaya plant Mango tree

Let's Think!

What are other plants that you know?

Let's Think!

Challenges students with questions that promote higher thinking skills.

STEM ACTIVITY

My rainbow garden

A garden is a planned space, usually outdoors, set aside for enjoyment of plants. We can find both natural and man-made materials in a garden.

You are required to design and create a rainbow garden. Your 'plants' should be about 15 to 40 cm tall and must be free-standing, including all parts. This display of rainbow garden must be placed on a table.

Suggested materials: Construction paper, Pipe cleaners, Craft sticks, Cotton balls, Yarn, Sticky tape, Scissors

ASK ? What do you know? What do you need to know to get started?

IMAGINE ! What are your possible solutions? Brainstorm solutions. Choose the best one.

STEM ACTIVITY

Provides an activity that engages in the application of knowledge of scientists, mathematicians and engineers.

PLAN ? Draw your design. List the materials that you need.

CREATE ! Follow your plan and create your solution. Test it.

IMPROVE ! What works? What does not work? How will you modify your solution to make it better? Test it again.

PRESENT ! Prepare a presentation and share it with your class.

4C's The 4C's of the 21st Century Skills are:

- Communication**
Sharing thoughts, questions, ideas & solutions.
- Collaboration**
Working together to reach a goal. Putting talent, expertise and smarts to work.
- Critical Thinking**
Looking at problems in a new way and linking learning across subjects & disciplines.
- Creativity**
Trying new approaches to get things done equals innovation & invention.

Let's know more!

Presents extra information that is relevant to the concept learned.